



ELITE SERIES SURGICAL TABLES
OPERATORS MANUAL



MODEL ELITE 3000



MODEL ELITE 3000

SKYTRON STANDARD LIMITED WARRANTY

SKYTRON, a Division of the KMW Group, Inc. (SKYTRON) warrants all new products sold by it directly or through a dealer or other authorized representative, with exception to replacement parts, spares, bulbs (surgical lights), pads, and accessory items (surgical tables) to be free from defects in material or workmanship, under normal use and service, for a period of two (2) years. This warranty shall include the cost of repair or replacement of defective parts including the cost of service labor and travel time to the site of equipment use. Delays caused by the user in accessing the equipment for repair will be chargeable at the normal hourly rate for service by SKYTRON's authorized service representative. The warranty period shall begin with the initial operation or one (1) year after receipt of the product, whichever shall occur first.

Replacement parts, spares, bulbs (surgical lights), pads and accessory items (surgical tables) are warranted to be free from defects in material or workmanship, under normal use and service, for a period of ninety (90) days from receipt by the ultimate user, with exception to replacement parts supplied by SKYTRON, for products under warranty, which shall be covered for any remaining period of the original product warranty, or for 90 days, whichever is of greater benefit to the ultimate user.

SKYTRON's responsibility and liability shall be limited to the repair or replacement of any part which we, SKYTRON, determine to be defective within the applicable warranty period. Minor adjustments required as a result of normal wear during the use of the product within the warranty period are not covered under warranty. The labor portion of this warranty is covered by SKYTRON's Authorized Service Agent. Repairs made by others are not authorized nor covered by SKYTRON with respect to labor costs.

SKYTRON shall not be liable for any other expense, loss or damage, whether direct, incidental, consequential or exemplary arising in connection with the sale or use of or the inability to use SKYTRON products.

NO EXPRESS WARRANTY IS GIVEN BY SKYTRON WITH RESPECT TO ITS PRODUCTS EXCEPT AS SPECIFICALLY SET FORTH HEREIN. ANY WARRANTY IMPLIED BY LAW, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS EXPRESSLY LIMITED TO THE TWO-YEAR AND 90-DAY TERMS SET FORTH ABOVE. THE FOREGOING STATEMENTS OF WARRANTY ARE EXCLUSIVE AND IN LIEU OF ALL OTHER REMEDIES.

No dealer, agent, employee or other representative of SKYTRON is authorized to extend or enlarge this warranty.

REV 8-04

Although current at the time of publication, SKYTRON's policy of continuous development makes this manual subject to change without notice.

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EQUIPMENT LABELS AND SPECIFICATIONS

10A

FUSE TYPE 10 AMP, FAST ACTING (FA)



INDICATES DANGEROUS VOLTAGE, 120 V, 60 Hz



CLASS I DEFIBRILLATION PROOF, TYPE B EQUIPMENT- IPX4 RATED.
INTERNALLY POWERED EQUIPMENT



PROTECTIVE GROUNDING.
IN ORDER TO ENSURE PROPER GROUNDING RELIABILITY,
THIS TABLE MUST BE CONNECTED TO A PROPERLY GROUNDED
HOSPITAL GRADE OUTLET.



CONNECTION FOR NEUTRAL CONDUCTOR SUPPLIED



UNIT TO BE USED ONLY IN SPECIFIED ENVIRONMENTAL CONDITIONS
TEMPERATURE: 15° - 30° C (60° -85° F)
HUMIDITY: 30% - 60% RELATIVE HUMIDITY, NON CONDENSING



AC VOLTAGE

IPX4

ENCLOSURE CLASS

V

VOLTAGE RATING OF THE UNIT

A

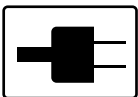
AMPERAGE RATING OF THE UNIT

HZ

FREQUENCY OF THE UNIT



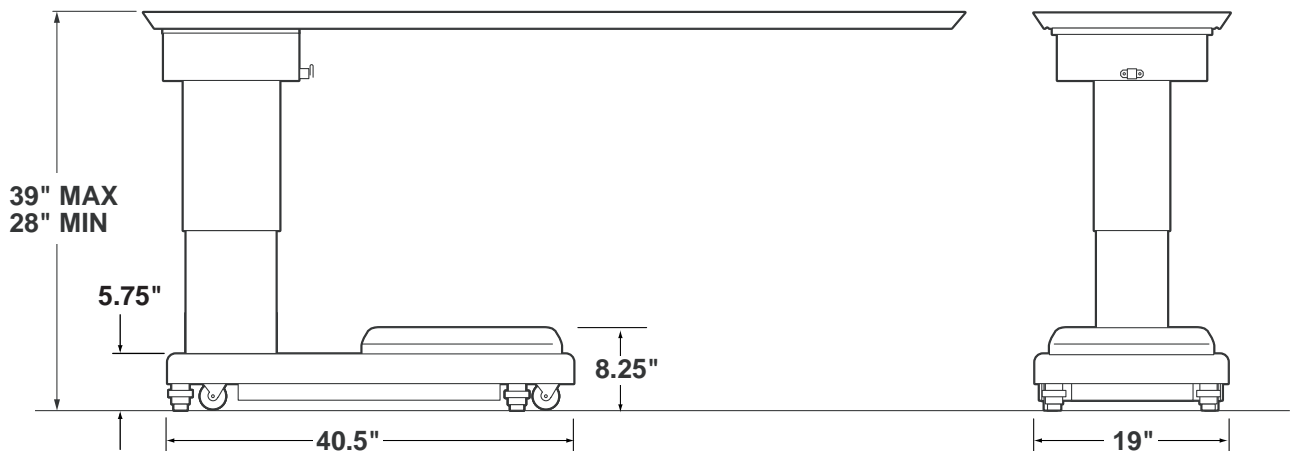
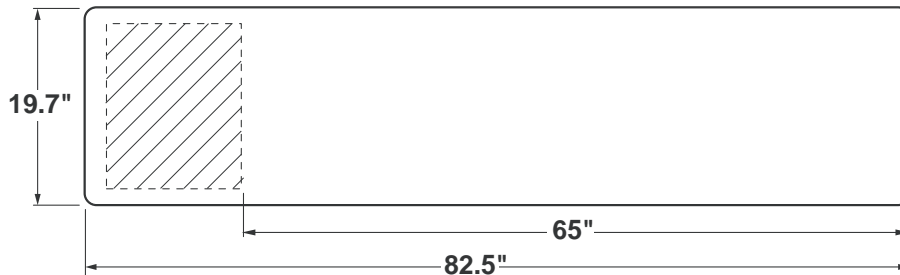
ATTENTION, CONSULT MANUAL FOR FURTHER INSTRUCTIONS.
INDICATES SPECIAL USER ATTENTION.



POWERED BY AC VOLTAGE

3000 Series Imaging Table Specifications

TOP VIEW



SIDE VIEW

END VIEW

Electrical Specifications

Power requirements	120 VAC, 60Hz, 450 Watts
Current Leakage	Less than 100 micro amps
Power Cord	15 feet w/hospital grade connector

ENTECLA CERTIFIED

TO UL2601-1,
CAN/CSA601.1, IEC 60601-2-46

US



C

SPECIAL USER ATTENTION

Certain accessories can be damaged when changing the position of the table top. Always look first to see if a desired movement is going to interfere with any accessories in use.

The operator has the ultimate responsibility of preventing damage to the table and surrounding equipment or possible injury to the patient or staff. In general, common sense will dictate when there is a potential hazard.

During table set-up and patient positioning, the following items should be observed.

The table top is constructed of a radioluscent composite material. Use caution when using accessories to protect the table top from damage including nicks or scratches to maintain clear imaging capability.

The 500 pound lift and articulate capacity is based on the patient weight load being evenly distributed on the table top. Refer to figures 3-1, 3-2 and 3-3 for proper patient positioning.

The following precautions should be reviewed by all personnel prior to operating the table.

A routine Instructional Program should be implemented by the facility for proper usage instructions for all personnel that may operate this table.



WARNING



Indicates a possibility of personal injury.



CAUTION



Indicates a possibility of damage to equipment.

NOTE

Indicates important facts or helpful hints.



WARNING



Risk of electrical shock. Make sure power cord is disconnected prior to accessing fuses.

NOTE

Activating any function button will activate the brake system. Using the TABLE UP function to set the brakes provides a visual assurance that the brakes are locked without altering the table position, except when emergency brake is released.



WARNING



DO NOT use the table in the presence of FLAMMABLE GASES (Flammable gases are not commonly used in the U.S.).



WARNING



DO NOT unlock brakes when a patient is on the table. An uneven patient weight load may cause instability.



WARNING



To maximize patient safety, utilize proper restraint methods during extreme Trendelenburg and lateral tilt positioning.

NOTE

- The Emergency Brake Release Valve must be closed and tightened (clock-wise) before activating any hydraulic function.

- If the Emergency Brake Release Valve has been operated, the BRAKE UNLOCK button on the pendant control will have to be pressed before brakes will lock again.



WARNING



Consult manufacturer's instructions when using high frequency surgical equipment, cardiac defibrillator and cardiac defibrillator monitors.

NOTE

Always follow current AORN Journal Guidelines to ensure proper cleaning and disinfection procedure.



WARNING



When an antistatic pathway is required, the table has to be used on an antistatic floor



WARNING



Always follow OSHA blood-borne pathogens standards for protective clothing, including gloves, masks and eye protection when cleaning the surgical table.



WARNING



The antistatic properties of the table are dependent on the use of the original pad set which was furnished with the table or an alternate approved replacement.



CAUTION



Thoroughly read and follow the manufacturer's directions for all cleaning fluids. **DO NOT** use cleaners containing phenolics.



CAUTION



MAXIMUM END LOAD 180 POUNDS.

During transfer, **DO NOT** seat the patient at the distal end of the table. Table stability may be compromised.

Lithotomy positioning is **NOT ADVISED** for the 3000 series tables.



CAUTION



When using spray cleaners **DO NOT** spray fluids directly into electrical receptacles or micro switches.



CAUTION



Before replacing pads on the table, make sure the pads and all mating surfaces are completely dry. Moisture trapped between the pads and mating surfaces may cause distortion of table tops.

SECTION I INTRODUCTION



Figure 1-1. Elite 3000

1-1. General

SKYTRON's Elite 3000 Series Imaging Tables are electro-hydraulically operated. See figure 1-1.

The electro-hydraulic positioning functions operated by the hand-held, pendant control unit are: Trendelenburg, lateral tilt, elevation, return to level, and the floor lock/brake system.

A manual control is provided for emergency brake release.

1-2. Power Requirements

The Elite 3000 Surgical Table requires a 120VAC, 60 Hz electrical power supply. The table is equipped with a 15 foot long power cord with a standard three prong, hospital grade plug. The electrical protection fuses (2) are located behind a cover plate in the electrical enclosure on the front edge of the base. See figure 1-2. The main power ON/OFF switch is located on the electrical enclosure.



WARNING



Risk of electrical shock. Make sure power cord is disconnected prior to accessing fuses.

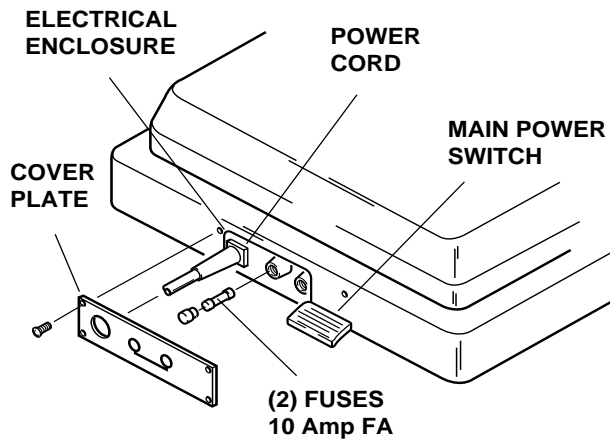


Figure 1-2. Power Switch and Fuse Location

1-3. Pendant Control Unit

The hand-held pendant control unit (figure 1-3) has a non-slip rubber cover which assures a positive grip during use. A spring clip hanger located on the back of the control allows it to be stored on the table bracket.

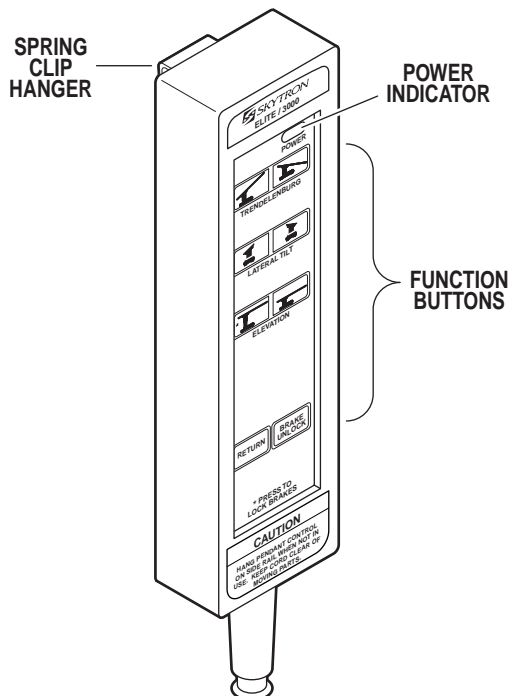


Figure 1-3. Pendant Control Unit

The function buttons are identified with symbols and descriptions for all functions. See figure 1-4. The Trendelenburg and table-up buttons are red, the remaining buttons are all green.

1-4. Floor Lock/Brake System

The floor lock/brake system consists of four self-leveling, hydraulic brake cylinders which raise and support the table base off from the casters. Press the ELEVATION-UP button on the pendant control to set the table's brakes. An electronic timer in the brake circuit will activate the brake system until the brakes are completely set, approximately 8-10 seconds.

NOTE

Activating any function button will activate the brake system. Using the TABLE UP function to set the brakes provides a visual assurance that the brakes are locked without altering the table position, except when emergency brake is released.

To unlock the brakes, press the BRAKE UNLOCK button and release. The brakes will retract automatically in approximately 7-8 seconds.

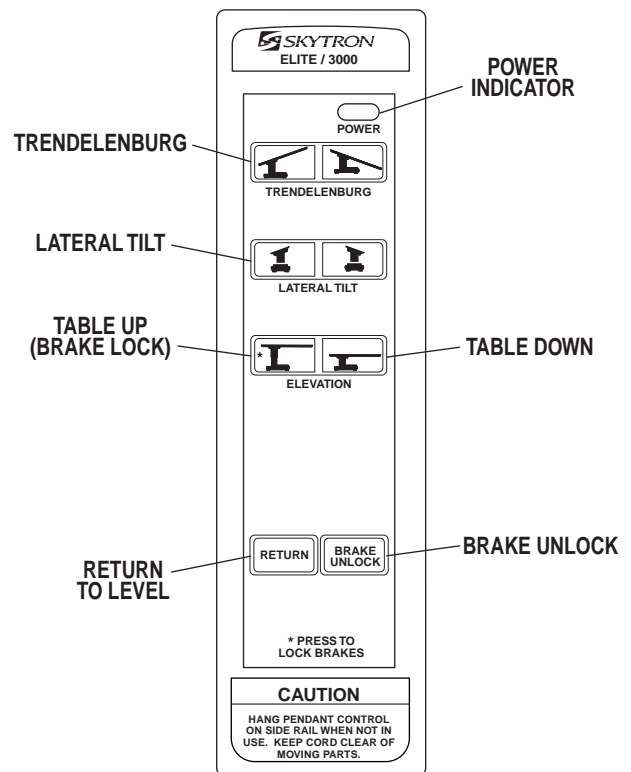


Figure 1-4. Function Push Buttons

SECTION II OPERATION

2-1. Electrical Power

- a. Check to be sure the power cord is plugged into 120VAC outlet.



WARNING



Prior to operating the table, observe all table caution labels and review the **SPECIAL USER ATTENTION** section in the front of this manual.



WARNING



DO NOT use the table in the presence of **FLAMMABLE GASES** (Flammable gases are not commonly used in the U.S.)

- b. Depress Main Power ON/OFF switch on the electrical enclosure. See figure 2-1. The green Power ON indicator light on the pendant control unit should now be illuminated.

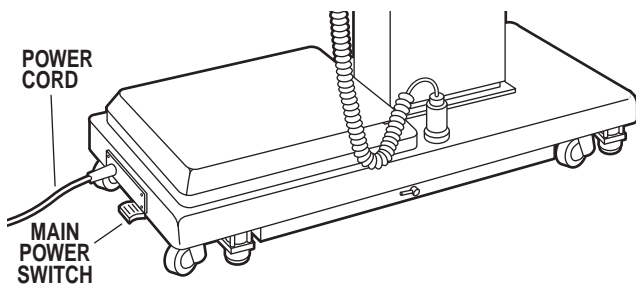


Figure 2-1. Main Power Switch

2-2. Positioning Functions

The hand-held pendant control unit (figure 2-2) activates the following table functions:

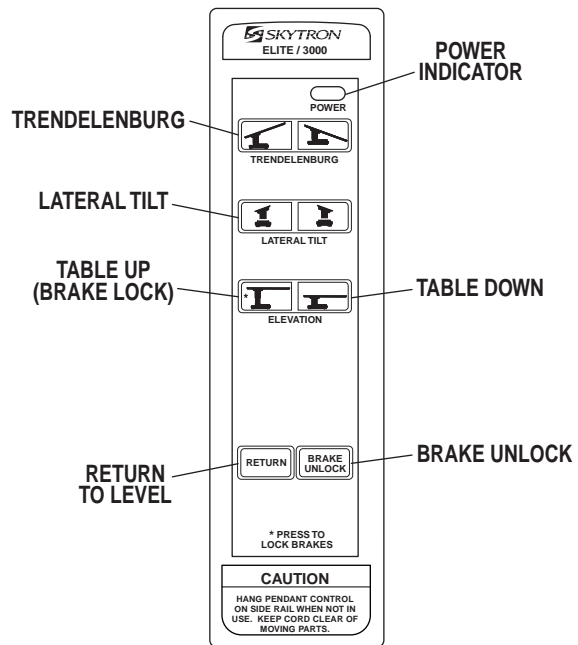


Figure 2-2. Pendant Control Unit

- a. **Floor Lock/Brake System.** To activate the brakes without affecting table positioning, press the **ELEVATION-UP** button. See figure 2-3. The elevation cylinder will not function until the brakes are completely extended.

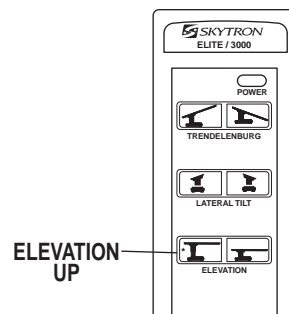


Figure 2-3. Brake System Activation

Press the BRAKE-UNLOCK button on the pendant control to release the four self-leveling brake feet in order to move the table. See figure 2-3. The brake delay circuit automatically retracts the brake system with just one press of the BRAKE-UNLOCK button. It takes approximately 7-8 seconds to totally release the system.



WARNING

DO NOT unlock brakes when a patient is on the table. An uneven patient weight load may cause instability.

b. Trendelenburg. To achieve Trendelenburg positioning, press the appropriate TRENDELENBURG button (figure 2-4). Trendelenburg positioning of up to 20° may be obtained.



WARNING

To maximize patient safety, utilize proper restraint methods during extreme Trendelenburg and lateral tilt positioning.

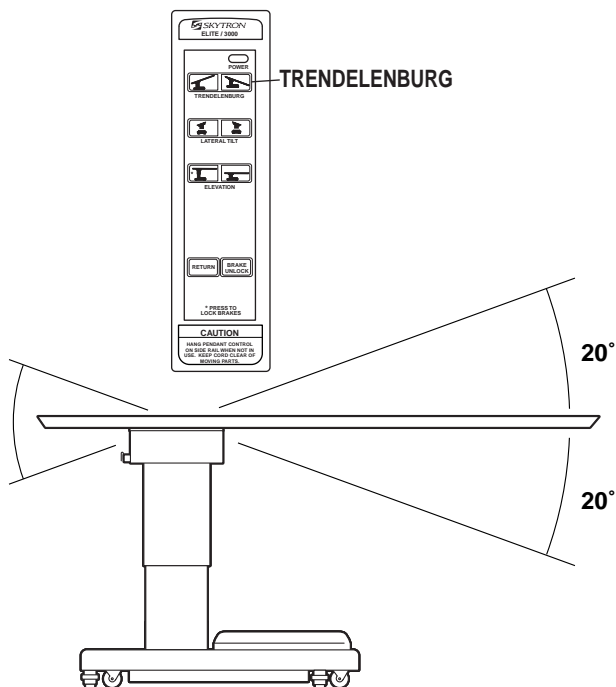


Figure 2-4. Trendelenburg Positioning

c. Lateral Tilt. To achieve lateral tilt right positioning, press the appropriate LATERAL-TILT button (figure 2-5). Tilt of up to 20° may be obtained.

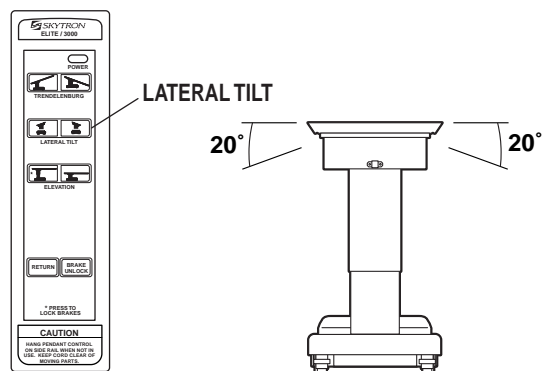


Figure 2-5. Lateral Tilt Positioning

d. Elevation. To raise table top, press the UP button (figure 2-6.). The table will lift a patient weight of 500 pounds up to a maximum height of 39". To lower the table top, press the DOWN button. The table top will go down to a minimum height of 28" (minus pad).

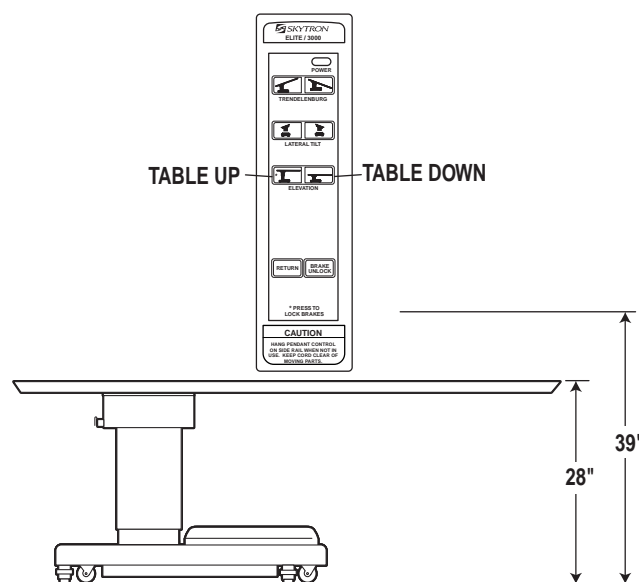


Figure 2-6. Elevation Function

e. Return To Level. To return the table top to a level position, press the RETURN button (figure 2-7).

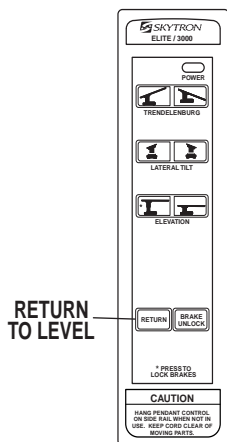


Figure 2-7. Return To Level

2-3. Emergency Brake Release

In case of a power failure or an electrical problem within the table, the emergency brake release system can be used to move the table. The control lever for this function is located on the side of the table base and is identified by an EMERGENCY BRAKE RELEASE label. Turn the lever counter-clockwise to release the brakes. See figure 2-8.

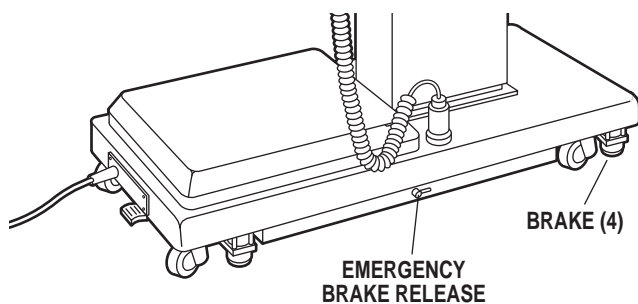


Figure 2-8. Emergency Brake Release

NOTE

- The Emergency Brake Release Valve must be closed and tightened (clockwise) before activating any hydraulic function.
- If the Emergency Brake Release Valve has been operated, the BRAKE UNLOCK button on the pendant control will have to be pressed before brakes will lock again.



WARNING



Consult manufacturer's instructions when using high frequency surgical equipment, cardiac defibrillator and cardiac defibrillator monitors.



WARNING



When an antistatic pathway is required, the table has to be used on an antistatic floor.



WARNING



The antistatic properties of the table are dependent on the use of the original pad set which was furnished with the table or an alternate approved replacement.

2-4. Positioning

During table set-up and patient positioning, the following items should be observed.

The table top is constructed of a radioluscent composite material. Use caution when using accessories to protect the table top from damage including nicks or scratches to maintain clear imaging capability.

The 500 pound lift and articulate capacity is based on the patient weight load being evenly distributed on the table top and the patient's head over the elevation column. The weight capacity with the patient's head away from the elevation column is 400 pounds. Refer to figures 3-1, 3-2 and 3-3 for proper patient positioning.



CAUTION



MAXIMUM END LOAD 180 POUNDS.

During transfer, DO NOT seat the patient at the distal end of the table. Table stability may be compromised.

Lithotomy positioning is NOT ADVISED for the 3000 series tables.

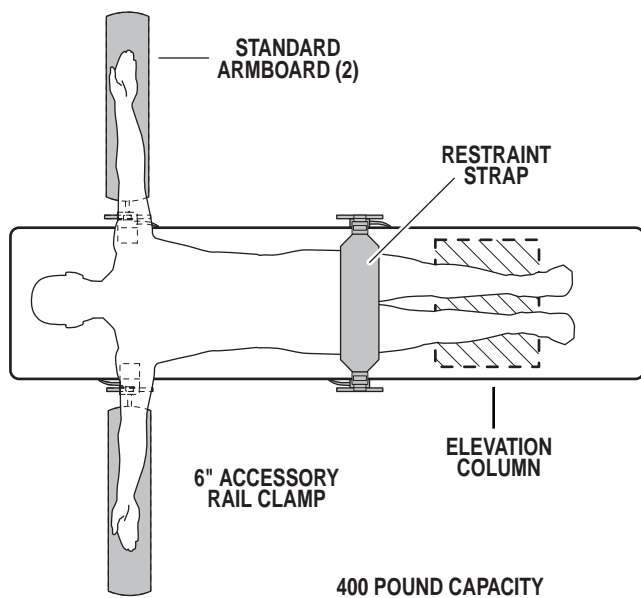


Figure 3-1.

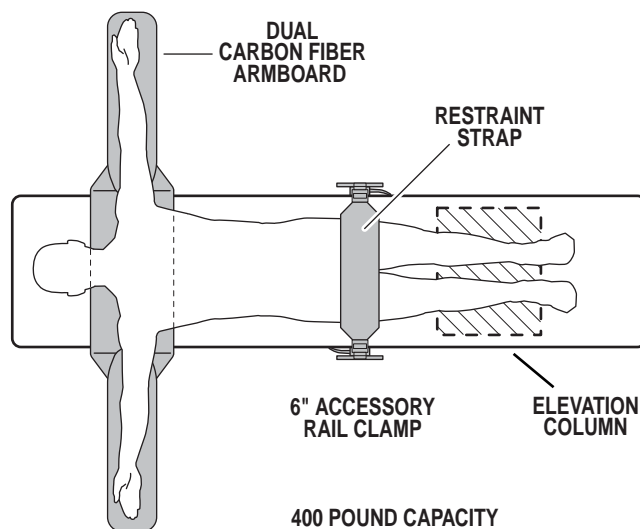


Figure 3-3.

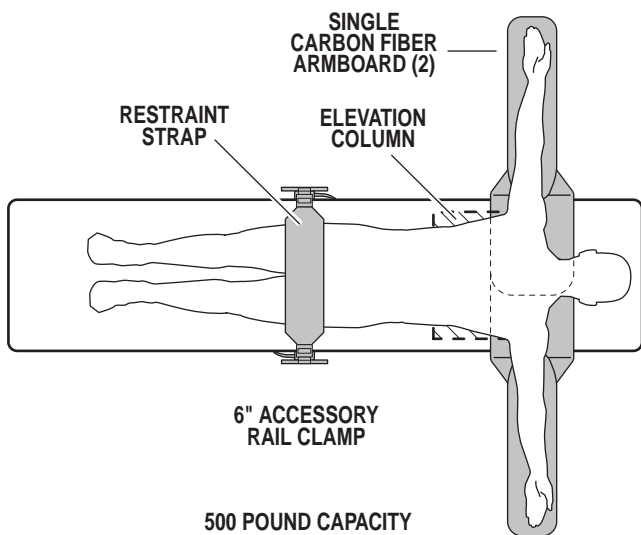


Figure 3-2.

SECTION III MAINTENANCE

3-1. Preventive Maintenance

The following preventive maintenance checks and services are recommended to ensure the serviceability and proper operation of your SKYTRON Surgical Table.

a. During normal cleaning, a general visual examination should be made checking for leaks, loose bolts or parts and cracked or chipped paint. Any necessary repairs should be made.

b. Semi-annually the following checks and services should be performed:

1. Check all hydraulic fittings, mini-valves and slave cylinders for proper operation and any signs of leaks.
2. Check the hydraulic speed controls and adjust if necessary.
3. Pressure check (with a gauge) the pressure relief valve.
4. Check all mechanical adjustments and adjust as necessary.
5. Check hydraulic fluid level.
6. Lubricate the elevation slider assembly.
7. Inspect table top for nicks, scratches or dents.

3-2. Cleaning Recommendations

NOTE

Always follow current AORN Journal Guidelines to ensure proper cleaning and disinfection procedure.

The following procedures should be followed when cleaning the surgical table between cases.

Place table top in level position prior to starting cleaning procedure.



WARNING



Always follow OSHA blood-borne pathogens standards for protective clothing, including gloves, masks and eye protection when cleaning the surgical table.

Remove major contaminants from the table with disposable materials following appropriate biohazard waste disposal procedures.

Remove all table pads and place them on a flat surface for cleaning.



CAUTION



Thoroughly read and follow the manufacturer's directions for all cleaning fluids. DO NOT use cleaners containing phenolics.

Apply cleaning fluid liberally to top and sides of each pad and wipe with a clean lint-free cloth.

Using a clean, damp, lint-free cloth, wipe the pads to remove the cleaning fluid.

Using a clean, dry, lint-free cloth, wipe the pads to remove all moisture.

Repeat the steps to clean the bottom of the each pad.



CAUTION



When using spray cleaners DO NOT spray fluids directly into electrical receptacles or micro switches.

Repeat cleaning procedure for all table surfaces including the top, sides, elevation column, base and all accessories.



CAUTION



Before replacing pads on the table, make sure the pads and all mating surfaces are completely dry. Moisture trapped between the pads and mating surfaces may cause distortion of table tops.

When the cleaning procedure is complete, replace all pads and accessories as applicable.

Remove pendant control from table bracket and apply cleaning solution to the pendant control and cord.

Use a clean cloth dampened with water to remove cleaning solution.

Use another clean damp cloth to remove any remaining residue.

Install pendant control on bracket for storage when cleaning procedure is complete.

3-3. Service

Table maintenance can be performed by trained maintenance personnel using SKYTRON authorized replacement parts and service techniques. Service instructions and parts are available from SKYTRON.

To obtain service instructions, replacement parts, factory service or preventive maintenance contracts, contact the SKYTRON representative listed below.

Or contact:

SKYTRON

5000 - 36th Street S.E.

Grand Rapids, MI 49512

1-800-SKYTRON (1-800-759-8766)

FAX: (616) 957-5053

